(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number WO 2005/044021 A1

(51) International Patent Classification?: A61K 35/78, A23C 9/00

A23L 1/015,

(21) International Application Number:

PCT/GB2004/004580

(22) International Filing Date: 29 October 2004 (29.10.2004)

(25) Filing Language:

Bnglish

(26) Publication Language:

English

(30) Priority Data: 03256868.5

30 October 2003 (30.10.2003) EP

(71) Applicant (for all designated States except US): LODERS CROKLAAN B.V. [NL/NL]; Hogeweg 1, NL-1521 AZ Womnerveer (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YAN, Youchun

[DE/NL]; Loders Croklaan BV, Hogeweg 1, NL-1521 AZ Wormerveer (NL). CAIN, Frederick, William [GB/NL]; Loders Croklaan B.V., Hogeweg 1, NL-1521 AZ Wormerveer (NL). STAM, Wiro [NL/NL]; Loders Croklaan BV, Hogeweg 1, NL-1521 AZ Wormerveer (NL). SCHMID, Uirlke [DE/NL]; Loders Croklaan BV, Hogeweg 1, NL-1521 AZ Wormerveer (NL). GERRIT-SEN, Jeanet [NL/NL]; Loders Croklaan B. V., Hogeweg 1, NL-1521 AZ Wormerveer (NL).

(74) Agent: STEVENS, Ian; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

[Continued on next page]

(54) Title: PINE NEEDLE EXTRACT

(57) Abstract: A composition which is obtainable as an extract from pine needles, having therapeutic activity and comprising isocupressic acid compounds in an amount of less than 0.01 wt % and further comprising one or more organic acids, can be used in foodstuffs, pharmaceutical compositions and food supplements.

